What is Claimed Is:

- A catheter for treating an occluded vessel comprising:
- a catheter body having a proximal end and a distal end, said distal end terminating in a distal tip; an energy source coupled to said distal tip for supplying energy to the distal tip for treating an occlusion;
- a magnetically active element located proximate said distal tip responsive to externally applied magnetic
- fields whereby said externally applied magnetic fields direct and orient said distal tip.
 - The catheter of claim 1 wherein said magnetically active element forms at least a portion of said distal tip.
 - The catheter of claim 1 further including a lumen positioned in said catheter body extending form said proximal end to said distal end.
 - The catheter of claim 1 further including one or more electrical coils located proximate said distal tip for cooperation with a localization device.
 - 5. A sheath for use with a catheter of claim 1 for treating a vessel occlusion comprising:
 - a sheath body having a proximal end and having a distal end;
 - a lumen extending from said proximal end to said distal end;
 - a magnetically active element located proximate said distal tip.
 - A system for treating a vessel occlusion comprising:
 - a sheath, having a sheath body, said sheath body having a proximal end and having a distal end;
 - a lumen extending through said sheath body from said proximal end to said distal end;
 - a catheter having a catheter body having a proximal end and a distal end terminating in distal tip; an energy source coupled to said distal tip;
 - a magnetically active element located proximate said distal tip of said catheter body.
 - A system for treating a vessel occlusion comprising: a sheath, having a sheath body, said sheath body having a proximal end and having a distal end;
 - a lumen extending through said sheath body from said proximal end to said distal end;
 - a catheter having a catheter body having a proximal end and a distal end;
 - an energy source coupled to said distal tip for delivering therapeutic energy to a vessel occlusion;
 - a magnetically active element forming a portion of said distal tip of said
 - sheath body.
 - 8. The catheter of claim 1 including a first metallic element located proximate said distal tip adapted for coupling to a remote radio frequency energy source whereby RF energy coupled to said metallic element heats said metallic element.
 - The catheter of claim 8 wherein said metallic element forms one pole of a monopolar energy distribution system.
 - The catheter of claim 9 further comprising a second metallic element proximate said distal tip forming a pole of a bipolar energy distribution system.
 - 11. The catheter of claim 1 including a thermally conductive element located proximate said distal tip adapted for coupling to a remote optical laser energy source whereby optical energy coupled to said thermally conductive element heats said thermally conductive element.
 - The catheter of claim 11 wherein said thermally conductive element is metallic.

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- 13. The catheter of claim 1 further including an ultrasonic waveguide element located proximate said distal tip adapted for coupling to a remote ultrasonic frequency energy source.
- 14. The catheter of claim 1 further including a resistance heating element located proximate said distalt ip adapted for coupling to a remote electrical energy source.
- 15. The catheter of claim 14 further including a resistance heating element located proximate said distal tip adapted for coupling to a remote AC elect5rical energy source.
- 16. The catheter of claim 14 further including a resistance heating element located proximate said distal tip adapted for coupling to a remote DC electrical energy source.
- 17. The catheter of claim 1 further including a fluid directing element located proximate said distal tip adapted for coupling to a remote hydraulic energy source, whereby fluid coupled to said device extracts occlusive material from locations near the distal tip.
- 18. The catheter of claim 3 further including a laser imaging device located in said lumen for observing an occlusion.
- The catheter of claim 3 further including an ultrasonic imaging device located in said lumen for observing an occlusion.
 - A system for treating total occlusions of a patient's vasculature comprising:
 - a catheter having an elongate body and a distal tip;
 - a heated element located proximate the distal tip of the catheter;
 - a magnetic element located proximate distal tip;
- a magnetic surgery system for interacting with said magnetic element; said magnetic surgery system including a localization device to determine the location of the catheter distal tip within the body;

said magnetic surgery system including an occlusion visualization device for presenting an image to a user which depicts the location of the catheter tip.

- 21. The system of claim 20 wherein said visualization device is an ultrasonic imaging wire.
- 22. The system of claim 20 wherein said visualization device is a laser imaging wire.
- 23. A system for treating occlusions of a patient's vasculature comprising:
- a catheter having an elongate body and a distal tip;
- a heated element located proximate the distal tip of the catheter;
- a magnetic element located proximate the distal tip;
- a magnetic surgery system for interacting with said magnetic element;
- said magnetic surgery system including a localization device to determine the location of the catheter distal tip within the body;

said magnetic surgery system including a catheter location visualization device for presenting an image to a user which depicts the location of the catheter tip.

- The system of claim 23 wherein said catheter location visualization device is a preoperative CT image.
- The system of claim 23 wherein said catheter location visualization device is a preoperative MRI
 image.

- 26. A method of treating a total vascular occlusion comprising the steps of:
- inserting a catheter having a magnetic tip into the body;
- directing the catheter to the location of the total occlusion;
- imaging the catheter tip to confirm and direct therapy;
- 5 energizing said catheter to heat said distal tip;
 - manipulating said distal tip by the application of external magnetic fields, directing said catheter tip into said occlusion.